# Chapter 37: Communities and Ecosystems

Vocabulary:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Community  37.1 | species diversity  37.1 | Trophic strucutre  37.1 | Niche 37.2 | interspecific competition 37.2 |
| Predator 37.3 | Prey 37.3 | Predation 37.3 | keystone species 37.4 | Herbivores 37.5 |
| Coevolution 37.5 | **Commensalism 37.6** | **Mutualism 37.6** | **symbiotic relationship 37.6** | **Parasitism 37.6** |
| **Pathogens 37.6** | **primary succession 37.7** | **ecological succession 37.7** | **secondary succession 37.7** | **primary consumers 37.9** |
| **Producers 37.9** | **food chain 37.9** | **Decomposition 37.9** | **Detritivores 37.9** | **Detritus 37.9** |
| **Decomposers 37.9** | **quaternary consumers 37.9** | **tertiary consumers 37.9** | **secondary consumers 37.9** | **Food chain 37.9** |
| **Food Web 37.10** | **Ecosystem 37.11** | **Energy flow 37.11** | **Chemical cycling 37.11** | **Biomas 37.12** |
| **Primary production 37.12** | **Biogeochemical cycles 37.15** | **Water Cycle 37.16 [explain]** | **Carbon Cycle 37.17 [esplain]** | **Nitrogen Cycle 37.18 [ explain]** |
| **Algal blooms** |  |  |  |  |

**Chapter Objectives quiz with vocabulary ( 15 points each):**

\_\_\_\_\_Sections 37.1 – 37.5

\_\_\_\_\_Sections 37.6 – 37.10

\_\_\_\_\_Sections 37.11 – 37.18

**Web Activities:**

*Web Activity* **37A Interspecific Interactions:** <http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&53&01&37A%20Interspecific%20Interactions>

*Web Activity* **37B Primary Succession** <http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&53&03&37B%20Primary%20Succession>

*Web Activity*: **37 C Food Webs:** <http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&53&02&37C%20Food%20Webs>

*Web Activity:*  **37 D Energy Flow and Chemical Cycling** <http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&54&02&37D%20Energy%20Flow%20and%20Chemical%20Cycling>

*Web Activity*: **37E Energy Pyramids** <http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&54&01&37E%20Energy%20Pyramids>

*Web Activity:* **37 F The Carbon Cycle** <http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&54&03&37F%20The%20Carbon%20Cycle>

*Web Activity:* **37 G The Nitrogen Cycle**

[http://media.pearsoncmg.com/bc/bc\_campbell\_concepts\_5/media/assets/interactivemedia/activityshared](http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&37&02&37G%20The%20Nitrogen%20Cycle)

[ActivityLoader.html?c6e&37&02&37G%20The%20Nitrogen%20Cycle](http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&37&02&37G%20The%20Nitrogen%20Cycle)

*Web Activity:* **37 H Water Pollution from Nitrates** <http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e&54&05&37H%20Water%20Pollution%20from%20Nitrates>

*BioFlix:* The Carbon Cycle <http://media.pearsoncmg.com/bc/bc_0media_bio/bioflix/bioflix.htm?cc5carbon_cycle>

MP3 Enery Flow and the Ecosystem: <http://wps.aw.com/bc_campbell_concepts_5/30/7923/2028411.cw/index.html>